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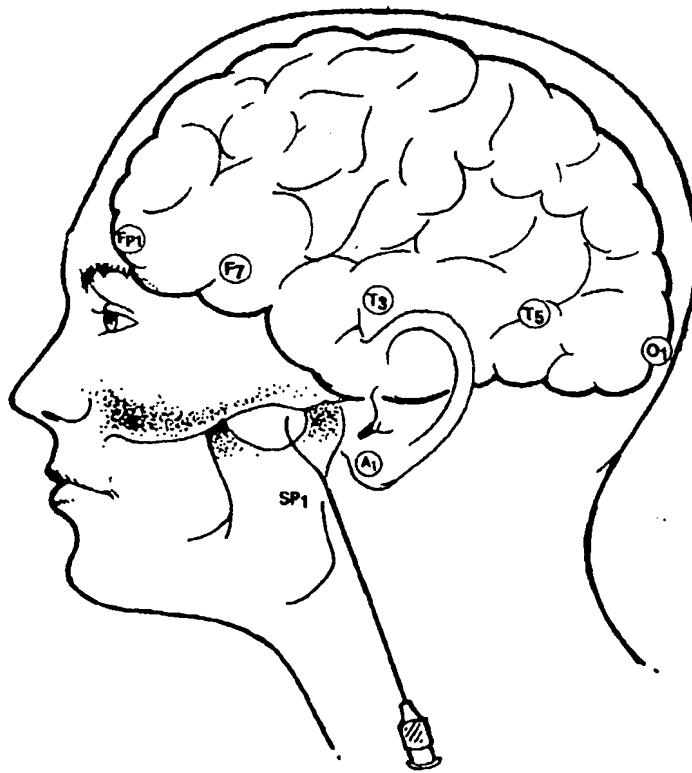
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[Continued on next page]

(54) Title: NONINVASIVE NONLINEAR SYSTEMS AND METHODS FOR PREDICTING SEIZURE



(57) Abstract: The present invention relates to methods and devices for noninvasive nonlinear prediction of ictal onset in patients afflicted by neurological disease. In particular, the present invention provides methods and devices for noninvasive nonlinear prediction of seizures in patients afflicted with epilepsy. The devices and methods preferably being based on analysis of two or more electroencephalogram (EEG) recordings, one set of recordings taken from an electrode close to the region of ictal onset, and a second or more set of recordings (e.g., concurrent readings) taken from a region remote from the region of ictal onset.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 5/04
US CL : 600/544, 545

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 600/544, 545

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,696,808 A (ROY et al) 10 October 1972 (10.10.1972), entire document.	1-5
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Y		6-9 and 12-19
X	US 3,850,161 A (LISS) 26 November 1974 (26.11.1974), entire document.	1-7
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Y		8-21
Y	US 5,995,868 A (DORFMEISTER et al) 30 November 1999 (30.11.1999), columns 9 and 13.	1-5 and 9
A	US 5,743,860 A (HIVELY et al) 28 April 1998 (18.04.1998), entire document.	1-21
A	US 5,269,315 A (LEUCHTER et al) 14 December 1993 (14.12.1993), entire document.	1-21

Further documents are listed in the continuation of Box C.

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